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मानक

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IS 622 (1956): Russet leather [CHD 17: Leather, Tanning Materials and Allied Products]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR
RUSSET LEATHER

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Indian Standard

SPECIFICATION FOR RUSSET LEATHER

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Indian Standard

SPECIFICATION FOR RUSSET LEATHER

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 October 1956, on approval by the Chemical Division Council of the draft finalized on 25 July 1956 by the Leather Sectional Committee.

0.2 Taking into consideration the views of producers, consumers and technologists, the Sectional Committee responsible for the preparation of this standard felt that it should be related to the trade practices followed in this field in the country. Furthermore, due weightage had to be given to the need for international co-ordination among standards prevailing in different countries of the world. These considerations led the Sectional Committee to consult various overseas standards on the subject and to draw assistance from the data collected by the Central Leather Research Institute, Madras, and Government Harness and Saddlery Factory, Kanpur.

0.3 This standard forms one of a series of Indian Standards on leather and leather goods. Other standards in the series are:

IS : 575-1956 SPECIFICATION FOR CHROME BELT LACE LEATHER

IS : 576-1954 SPECIFICATION FOR GLAZED KID FOR SHOE UPPERS

IS : 577-1954 SPECIFICATION FOR UPHOLSTERY LEATHER

*IS : 578-1954 SPECIFICATION FOR CHROME TANNED BOX AND WILLOW KIPS AND SIDES FOR SHOE UPPERS

*IS : 579-1954 SPECIFICATION FOR SOLE LEATHER

*IS : 580-1954 SPECIFICATION FOR HARNESS LEATHER

IS : 581-1954 SPECIFICATION FOR VEGETABLE TANNED HYDRAULIC LEATHER

IS : 582-1954 METHODS OF SAMPLING AND TEST FOR VEGETABLE AND CHROME TANNED LEATHERS

IS : 583-1954 SPECIFICATION FOR AMMUNITION BOOTS FOR GENERAL PURPOSES

*IS : 584-1954 SPECIFICATION FOR CHAPLIS, FRONTIER PATTERN, FOR GENERAL PURPOSES

*Since revised.

0.4 Indian Standard Methods of Sampling and Test for Vegetable and Chrome Tanned Leathers (IS : 582-1954) is a necessary adjunct to this standard.

0.4.1 Wherever a reference to IS : 582-1954 appears in this specification it shall be taken as a reference to the latest version of the standard.

0.5 The Government of India have decided to introduce throughout the country a uniform system of weights and measures based on the metric system. Keeping this decision in view, measurements and weights have been given in the metric system. Where the present practice in the country is to use the foot-pound system, figures have been given in the metric system and equivalents, in round figures, in the foot-pound system have been indicated. It is expected that this will assist the industry to familiarize itself with the metric system so that, in course of time, the use of foot-pound system may be eliminated.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960 Rules for Rounding Off Numerical Values. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

0.7 This standard is intended chiefly to cover the technical provisions relating to the supply of the material, and it does not include all the necessary provisions of a contract.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of test for russet leather used for footwear uppers.

2. SAMPLING

2.1 Representative samples of the material shall be drawn as prescribed under 2 of IS : 582-1954.

3. REQUIREMENTS

3.1 Raw Materials — The material shall be dry-salted or wet-salted hides of good substance and as much free as possible from grain and flesh defects.

3.2 Tanning — The material shall be tanned with vegetable tanning materials or with a mixture of vegetable tanning materials and synthetic tanning agents.

3.2.1 Currying — The leather shall be thoroughly stuffed with a vegetable oil and tallow. After the currying process, the leather shall be laid down to season for a period.

3.3 Finish — The material shall be full grain but may be lightly buffed. The flesh side of the material shall be smooth and free from flesh and loose fibres. The leather shall either be finished in natural colour or shall be dyed and finished in the required colour on the flesh side.

3.4 The material shall also comply with the requirements given in Table I, when tested according to the methods prescribed in IS : 582-1954 and when calculated on 14 percent moisture basis. References to the relevant clauses of IS : 582-1954 are given in col 4 of the table.

TABLE I REQUIREMENTS FOR RUSSET LEATHER

St. No.	CHARACTERISTIC	REQUIREMENT*	METHOD OF TEST (REF TO CL No. of IS : 582-1954)
(1)	(2)	(3)	(4)
i)	Total ash, percent by weight, <i>Max</i>	2.0	7
ii)	Fats and oils, percent by weight	15 to 20	8
iii)	Water soluble matter, percent by weight, <i>Max</i>	11.0	10
iv)	pH of water solubles, <i>Min</i>	3.5	13
v)	Differential number, <i>Max</i>	0.6	13
vi)	Degree of tannage, <i>Min</i>	45	17
vii)	Thickness at the butt	1.75 to 3.00 mm	20
viii)	Crackiness of the grain	Shall not crack on double folding	22
ix)	Tensile strength, in kg/cm ² (or lb/in ²) :		
a)	Average (of six tests) at breaking load, <i>Min</i>	280 (or 4 000)	23
b)	For single specimen, <i>Min</i>	245 (or 3 500)	23

*On 14 percent moisture basis.

3.4.1 The moisture content shall be determined as prescribed under 6 of IS : 582-1954.

4. PACKING AND MARKING

4.1 The leather shall be packed as agreed to between the purchaser and the vendor.

4.2 The package shall be marked with the name of the manufacturer, recognized trade mark, if any, number of pieces of leather, and month and year of manufacture.

4.2.1 The package may also be marked with the Indian Standard Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	Unit	Symbol	Definition
Force	newton	N	$1 \text{ N} = 1 \text{ kg.m/s}^2$
Energy	joule	J	$1 \text{ J} = 1 \text{ N.m}$
Power	watt	W	$1 \text{ W} = 1 \text{ J/s}$
Flux	weber	Wb	$1 \text{ Wb} = 1 \text{ V.s}$
Flux density	tesla	T	$2 \text{ T} = 1 \text{ Wb/m}^2$
Frequency	hertz	Hz	$1 \text{ Hz} = 1 \text{ s}^{-1}$
Electric conductance	siemens	S	$1 \text{ S} = 1 \text{ A/V}$
Electromotive force	volt	V	$1 \text{ V} = 1 \text{ W/A}$
Pressure, stress	pascal	Pa	$1 \text{ Pa} = 1 \text{ N/m}^2$

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